

Work Order ID 140078

140078

Thursday, December 17, 2015 3:42:06 PM

Page 1

Item ID: 647.3704 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: 204,205,212,214 Cable Cutter System, High
 Start Date: 12/17/2015 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 12/17/2015 Req'd Qty: 1.00 *1* Customer:
 Reference:

Approvals: Process Plan: MLJ Date: DEC 21 2015 Tooling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start *NR1*
 Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr		DAS						
647.3700	NC3		6						
			9-89						

100 DOCUMENT CONTROL 0.00
 100
 DC Memo 0.00
 Doc.Control -USB or Paperwork Photocopy bluefile & type labels per PPP 647.3704
 DAS 38 9-89 16-02-17

110 Pick Kit 0.00
 110
 Packaging Memo 0.00
 Packaging
 DAS 6 9-89
 FEB 08 2010
 DAS 27 9-89

120 QC4- 100% Inspect kits for completeness 0.00
 120
 QC Memo 0.00
 Quality Control
 DAS 38 9-89 16-02-17

To ship Feb 12/16

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		☐ OTHER : _____							

Work Order ID 140078***140078***

Page 2

Thursday, December 17, 2015 3:42:06 PM

Item ID: 647.3704 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: 204,205,212,214 Cable Cutter System, High
Start Date: 12/17/2015 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 12/17/2015 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 647.3704								
	Location: _____								
		Sold							
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

Stamp
16/2/17

16/2/17

Sold

Jan Feb 17/16

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Picklist Print

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Page 1

Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.26 NEW ISSUE DD VERF:JLM
REV:B 15.01.26 as per ecr 14-214 DD VERF:JLM
PER REV NC3 15.03.18 JLM VERIFIED BY:DD

IPP
IPP REV:C AS

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
601.3082 *601 3082* RIVET	DAS 38 9-89	Purchased	No				Each	21.0000	**	6			DAS 6 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				CCK099		21							
				m129702		21							
647.3903 *647 3903* Deflector Assembly	DAS 38 9-89	Manufactured	No				Each	1.0000	**	1			DAS 7 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				cck024		1							
				139795		1							
647.3802 *647 3802* 212 Upper Cutter Assy	DAS 38 9-89	Manufactured	No			110	Each	16.0000	**	1			DAS 6 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				cck030		16							
				124717		12							
				124722		2							
				124723		2							
647.3804 *647 3804* Lower Cutter Assy High	DAS 38 9-89	Manufactured	No			110	Each	1.0000	**	1			DAS 6 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				cck27		1							
				139357		1							

FEB 08 2016

138768

FEB 08 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐					FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
					OTHER : _____				

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Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

647.4410 Manufactured No

110 Each 22.0000 1 1

647 4410

Rail

DAS
38
9-89

**

DAS

6
9-89

Location

Loc Qty

Loc Code

CCK081

22

120755

6

120986

16

647.4010

Manufactured No

110 Each 25.0000 1 1

647 4010

Wiper Deflector RH

DAS
38
9-89

**

Location

Loc Qty

Loc Code

cck87

25

120740

17

m129721

8

647.4011

Manufactured No

110 Each 24.0000 1 1

647 4011

Wiper Deflector LH

DAS
38
9-89

**

Location

Loc Qty

Loc Code

cck78

24

120741

17

m129721

7

647.4110

Manufactured No

110 Each 21.0000 1 1

647 4110

Doubler

DAS
38
9-89

**

Location

Loc Qty

Loc Code

CCK080

21

120742

3

120987

18

DAS

6
9-89

FEB 08 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER : ☐						
Misidentified ☐	☐	Past Due ☐							

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Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

647.4111
647 4111
DAS 38 9-89
Doubler

110 Each 22.0000 1 1

**

DAS 6 9-89

Location Loc Qty Loc Code

cck111 22
120743 16
120967 6

647.4112
647 4112
DAS 38 9-89
Clip

110 Each 10.0000 1 1

**

DAS 6 9-89

Location Loc Qty Loc Code

CCK112 10
126770 10

647.4113
647 4113
DAS 38 9-89
Clip

110 Each 10.0000 1 1

**

DAS 6 9-89

Location Loc Qty Loc Code

CCK112 10
126771 10

647.4114
647 4114
DAS 38 9-89
Shim

110 Each 49.0000 2 2

**

DAS 6 9-89

Location Loc Qty Loc Code

CCK112 49
120635 14
120746 28
120941 7

FEB 08 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER : _____						
Misidentified ☐	☐	Past Due ☐							

Picklist Print

Thursday, December 17, 2015 3:42:05 PM

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Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

647.4115 Manufactured No

110 Each 34.0000 2 2

647 4115

Shim

DAS
38
9-89

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK112

34

120747

31

120949

3

647.4116 Manufactured No

110 Each 26.0000 1 1

647 4116

Shim

DAS
38
9-89

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK112

26

120748

6

121064

20

647.4210 Manufactured No

110 Each 21.0000 1 1

647 4210

Bracket LH

DAS
38
9-89

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK112

6

120749

6

CCK123

15

121086

15

647.4211 Manufactured No

110 Each 21.0000 1 1

647 4211

Bracket RH

DAS
38
9-89

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK112

6

120750

6

CCK123

15

121134

15

FEB 08 2016

Thursday, December 17, 2015 3:42:05 PM

Shop Packet Print

Page 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

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Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

647.4212

647 4212

Plate

DAS
38
9-89

Manufactured No

110 Each 8.0000 1 1

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK112

8

120945

3

m129702

5

647.4311

647 4311

RH Lower Strut

DAS
38
9-89

Manufactured No

110 Each 6.0000 1 1

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK67

6

126398

6

647.4310

647 4310

LH Lower Strut

DAS
38
9-89

Manufactured No

110 Each 25.0000 1 1

**

DAS
6
9-89

Location

Loc Qty

Loc Code

cck066

25

126395

19

126396

6

647.4312

647 4312

LH Upper Strut

DAS
38
9-89

Manufactured No

110 Each 6.0000 1 1

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK67

6

126399

6

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Shop Packet Print

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DQA: _____ Date: _____



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Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____							
Misidentified ☐	☐ Past Due								

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Page 6

Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

647.4313

Manufactured No

110 Each 6.0000 1 1

647 4313

RH Upper Strut

DAS
38
9-89

**

DAS
6
9-89
DAS
6
9-89

Location

Loc Qty

Loc Code

cck068

6

126401

6

NAS1149FN832P

Purchased No

110 Each 4,171.000 34 34

NAS1149FN832P

Washer

DAS
38
9-89

**

DAS
6
9-89
DAS
6
9-89

Location

Loc Qty

Loc Code

GA

2339

M133316

16

M133769

2323

ST262

1832

M133709

1832

NAS1149F0332P

Purchased No

110 Each 1,633.000 157 157

NAS1149F0332P

Washer

DAS
38
9-89

**

133938 107
134055 150

DAS
6
9-89

Location

Loc Qty

Loc Code

GA

476

m133709

476

ST262

1157

m133709

1157

MS27039-1-07

Purchased No

110 Each 400.0000 12 12

MS27039-1-07

Screw

DAS
38
9-89

**

DAS
6
9-89

Location

Loc Qty

Loc Code

GA

334

125654

334

ST281

66

m127813

66

12

DAS
38
9-89
FEB 08 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence							
		☐ OTHER : _____							

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Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

110

Each

164.0000

42

42

MS27039-1-10 DAS

38

SCREW

9-89

**

134164 X32 DAS 6 9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST280

73

m132677

73

MS27039-08-08

Purchased

No

110

Each

59.0000

16

16

MS27039-08-08 DAS

38

Screw

9-89

**

DAS 6 9-89

Location

Loc Qty

Loc Code

CA

8

m130113

8

ST278

51

m130799

51

MS27039-1-09

Purchased

No

110

Each

113.0000

14

14

MS27039-1-09 DAS

38

Screw

9-89

**

DAS 27 9-89 FEB 08 2016

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

36

124859

36

ST280

43

125646

43

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-11

Purchased

No

110

Each

546.0000

2

2

MS27039-08-11

SCREW

DAS
38
9-89

**

DAS
6
9-89

Location

Loc Qty

Loc Code

over006

450

m133769

450

ST278

96

m133363

96

MS24694-S49

Purchased

No

110

Each

228.0000

1

1

MS24694-S49

Screw

DAS
38
9-89

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST284

228

m129499

100

m129702

128

MS24694-C53

Purchased

No

110

Each

128.0000

8

8

MS24694-C53

Screw

DAS
38
9-89

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST285

128

m129702

128

601.3073

DAS
38
9-89

Purchased

No

110

Each

6.0000

1

1

601 3073

Connector

**

DAS
6
FEB 08 2016

Location

Loc Qty

Loc Code

CCK099

6

M133344

1

M133781

5

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

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Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

AN3-4A Purchased No

110 Each 178.0000 3 3

AN3-4A DAS
Bolt 38
9-89

**

DAS
6
9-89

Location

Loc Qty

Loc Code

over003

100

m133694

100

ST350

78

m129682

13

m133234

65

AN3-11A Purchased No

110 Each 154.0000 8 8

AN3-11A DAS
Bolt 38
9-89

**

DAS
6
9-89

Location

Loc Qty

Loc Code

over003

150

m133363

50

m133561

100

ST349

4

m133234

4

AN3C10A Purchased No

110 Each 9.0000 2 2

AN3C10A DAS
Bolt 38
9-89

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST349

9

m128634

9

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

CR3212-4-2
CR3212-4-2
 Cherry Rivet

DAS
 38
 9-89

Purchased

No

110 Each 83.0000 5 5

**

DAS
 6
 9-89

Location

Loc Qty

Loc Code

ST320

9

121090

9

ST321

74

m133363

74

CR3212-4-3
CR3212-4-3
 Cherry Rivet

DAS
 38
 9-89

Purchased

No

110 Each 0.0000 17 17

**

DAS
 6
 9-89

CR3212-4-4
CR3212-4-4
 CHERRY RIVET

DAS
 38
 9-89

Purchased

No

110 Each 0.0000 7 7

**

DAS
 6
 9-89

CCR264SS3-04
CCR264SS3-04
 Rivet

DAS
 38
 9-89

Purchased

No

110 Each 639.0000 12 12

**

DAS
 6
 9-89

Location

Loc Qty

Loc Code

CCK004

590

123785

400

m129702

190

ST321

49

123352

49

CCR264SS-3-03
CCR264SS-3-03
 Rivet

DAS
 38
 9-89

Purchased

No

110 Each 79.0000 16 16

**

DAS
 6
 9-89

Location

Loc Qty

Loc Code

LG001

79

m128606

79

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Page 10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process								
Misidentified ☐	☐ Past Due	OTHER :							

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Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-2

Purchased No
DAS 38 9-89

CR3213-4-2

Cherry Rivet

110 Each 513.0000 31 31

**

DAS 6 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK003

192

123301

192

ST319

321

m131340

321

21

CR3213-4-3

Purchased No
DAS 38 9-89

CR3213-4-3

Rivet, Cherry

110 Each 674.0000 24 24

**

DAS 6 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK004

140

m129541

100

m130388

40

ST318

200

m131340

200

ST320

334

123301

334

24

CR3213-4-4

Purchased No

CR3213-4-4

Rivet, Cherry

110 Each 450.0000 16 16

**

DAS 6 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK004

300

M133694

300

ST319

48

M130388

48

ST320

102

126282

102

9

3

24

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-5

DAS
38
9-89

Purchased

No

110

Each

170.0000

28

28

CR3213-4-5

Rivet

**

133561

DAS

9-89

Location

Loc Qty

Loc Code

ST319

170

M129913

170

CR3213-4-8

DAS
38
1-89

Purchased

No

110

Each

132.0000

4

4

CR3213-4-8

Rivet

**

DAS

9-89

Location

Loc Qty

Loc Code

ST319

132

123785

132

MS21042-3

MS21042L3

DAS
38
1-89

Purchased

No

110

Each

18.0000

79

79

MS21042-3

Nut / use MS21042L3

**

M131039

DAS

9-89

Location

Loc Qty

Loc Code

ST304

18

M129682

18

MS21042-08

MS21042L08

DAS
38
9-89

Purchased

No

110

Each

33.0000

18

18

MS21042-08

USE MS21042L08

**

M133922

DAS

9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

FEB 08 2016

Thursday, December 17, 2015 3:42:05 PM

Shop Packet Print

Page 12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Thursday, December 17, 2015 3:42:06 PM

Page 13

Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

MS21047L06

Purchased No
DAS
38
9-89

MS21047L 06

Nut Plate

110 Each 88.0000 6 6

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST301

17

129702

17

ST303

71

m131340

71

MS21047L08

Purchased No

MS21047L 08

Nut Plate

DAS
38
9-89

110 Each 81.0000 6 6

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST301

81

m129702

81

MS21047-3

Purchased No

MS21047-3

Nut Plate

DAS
38
9-89

110 Each 155.0000 4 4

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST301

147

m133234

47

m133577

50

m133790

50

ST303

8

m130388

8

FEB 08 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date ☐	☐	Manufacturing Process	OTHER : ☐							
Misidentified ☐	☐	Past Due								

Picklist Print

Thursday, December 17, 2015 3:42:06 PM

Page 14

Work Order ID: 140078

140078

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 12/17/2015

Required Date: 12/17/2015

Start Qty: 1.00

Required Qty: 1.00

MS21071L3

Purchased

No

110

Each

226.0000

4

4

MS21071L3

ANCHOR NUT

DAS
38
9-89

Location

Loc Qty

Loc Code

ST299

125

124291

21

m129702

104

ST301

101

114348

1

125654

100

**

DAS
6
9-89

DAS
6
9-89

601.3083

Manufactured

No

110

Each

4.0000

1

1

601 308.3

Adhesive Rubber Seal

DAS
38
9-89

Location

Loc Qty

Loc Code

cck012

4

130723

4

**

DAS
6
9-89

DAS
6
9-89

601.1012

600.1012

Purchased

No

110

Each

0.0000

1

1

601 1012

Sealant (One 6 oz) 600/1012

DAS
38
9-89
UN 0 8 2016

**

133 820

DAS
6
9-89

DAS
6
9-89

601.2045

6116 Purchased

No

110

Each

15.0000

1

1

601 2045

RTV (LOCTITE 598) McMaster p/n: 6641A41

DAS
38
9-89

Location

Loc Qty

Loc Code

CCK096

5

m133275

5

CCK109

10

m133588

10

5/31/2017

**

DAS
6
9-89

FEB 0 8 2016

DAS
6
9-89

Thursday, December 17, 2015 3:42:06 PM

Shop Packet Print

Page 14

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____							
Misidentified ☐	☐ Past Due								



04881

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C

PREPARED BY J. BECKER

DATE: 02/26/15

EFFECT ON DWG

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF.

NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: DELETED F/N 57, REVISED F/N 6.

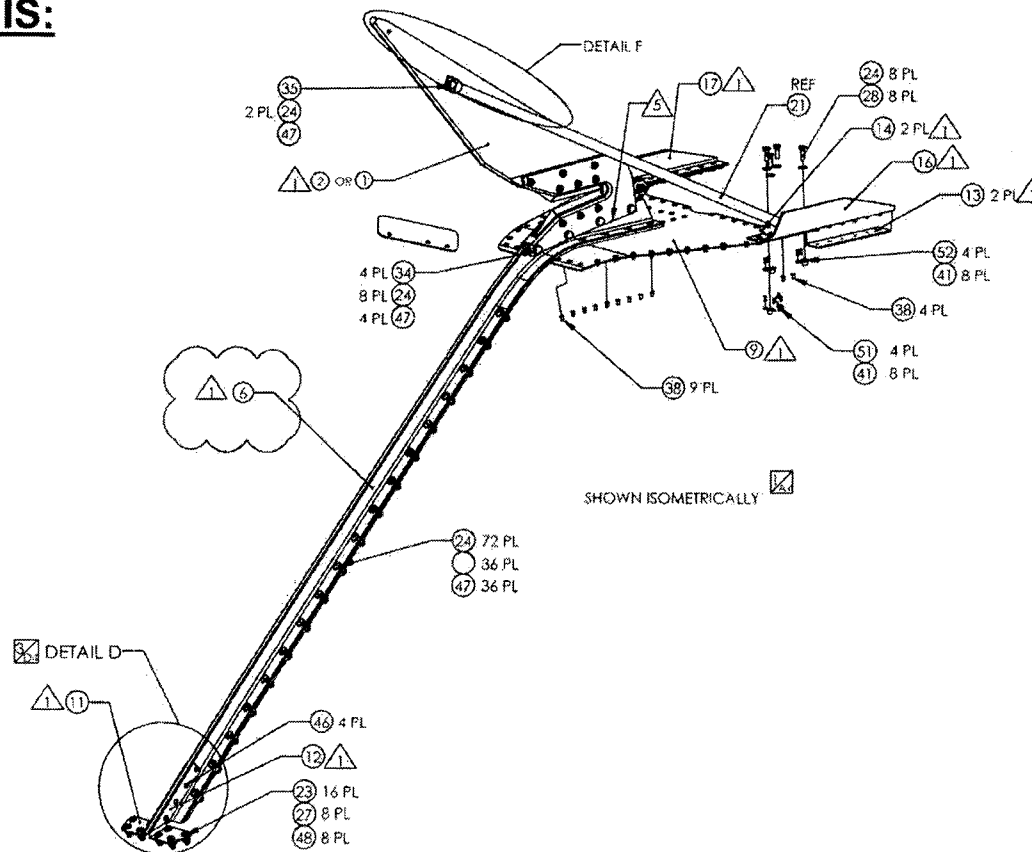
ECR:

N/A

ACTION ITEM:

1

SHEET 1, ZONE C5 IS:



STOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 140078 MJS

15-12-2

57	D	647.3916	1	1	1	1	DEFLECTOR UPPER HALF				
6	R	647.3903	1	1	1	1	DEFLECTOR ASSEMBLY				
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION			MATERIAL	SPECIFICATION
			QTY								
DOCUMENTS EFFECTED:							CHANGE CATEGORY			DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM							☐ MAJOR ☒ MINOR			☐ YES ☒ NO	



04845

DWG NO. 647.3700

REV: N/C	PREPARED BY J. BECKER
----------	-----------------------

DATE: 02/11/15

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY: ENGR

MFG	<i>[Signature]</i>	QC
-----	--------------------	----

EFF.	NEXT ORDER
------	------------

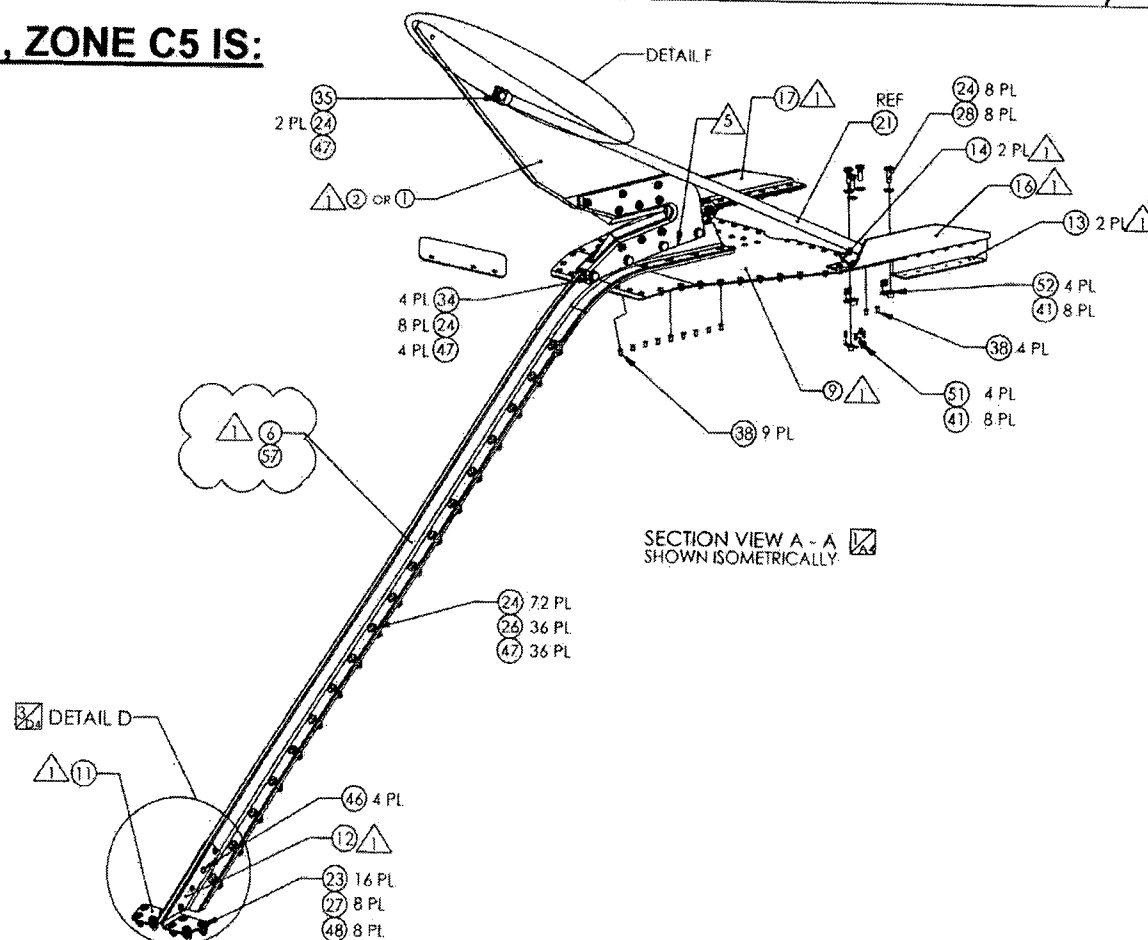
TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: ADDED F/N 57

ECR:

SHEET 1, ZONE C5 IS:

ACTION ITEM:
1.



57	A	647.3916	1	1	1	1	DEFLECTOR UPPER HALF			
F/N	TC	PART NUMBER	3704	3703	3752	3701	DESCRIPTION		MATERIAL	SPECIFICATION
			QTY							
DOCUMENTS EFFECTED:								CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM								☐ MAJOR ☒ MINOR	☐ YES ☒ NO	

APICAL
INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO. 02728

SHEET 1 OF 1

DWG NO. 647.3700

REV: NC

PREPARED
BY

R. ROSANO

DATE: 12/23/09

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR

P. Branca

KMFA

Daniel J. J...

QC

Manuel Rosano

EFF:

NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: ADDED MODEL 214 TO APPROPRIATE DESCRIPTIONS

SHEET 1, ZONE D7 IS:

IS

						647.3704	204, 205, 212, 214 CABLE CUTTERS KIT HIGH		
						647.3703	204, 205, 212, 214 CABLE CUTTERS KIT LOW		
						647.3702	412 CABLE CUTTERS KIT HIGH		
						647.3701	412 CABLE CUTTERS KIT LOW		
		.3704	.3703	.3702	.3701	FIND	PART #	DESCRIPTION	MAT'L SPEC.

F/N	TC	PART NUMBER	2901	DESCRIPTION	MATERIAL	SPECIFICATION
DOCUMENTS EFFECTED:				☒ MDL ☒ INSTALL INSTRUC ☒ ICA ☒ BOM	CHANGE CATEGORY ☐ MAJOR ☒ MINOR	DER REVIEW REQUIRED ☒ YES ☐ NO

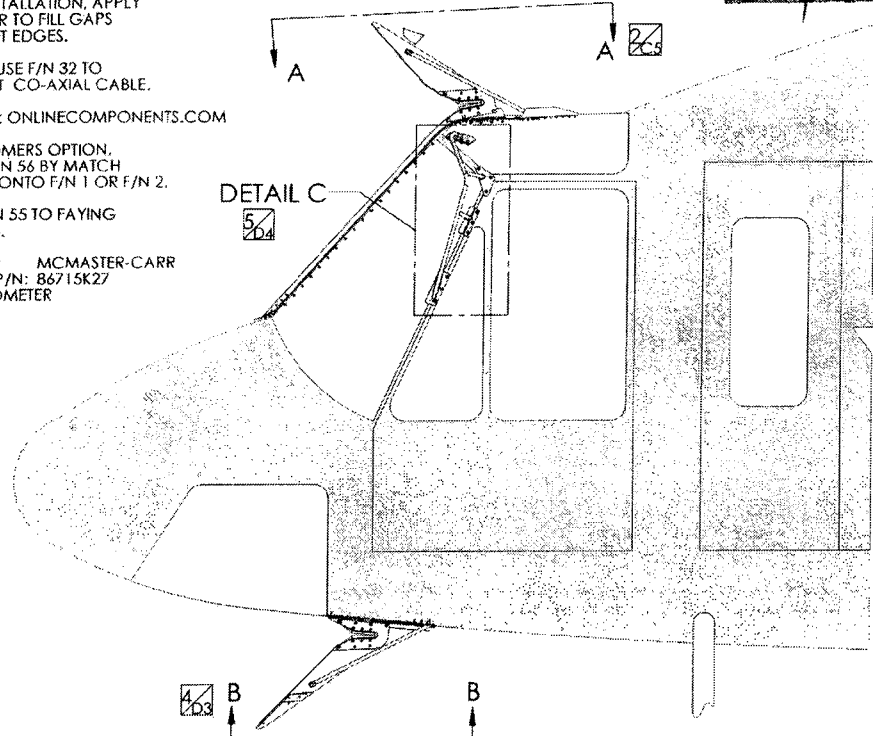
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UNINCORPORATED ECN(S)

02728, 04845, 04881

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 IF REQD. USE F/N 32 TO CONNECT CO-AXIAL CABLE.
- 3 VENDOR : ONLINECOMPONENTS.COM
- 4 AT CUSTOMERS OPTION, INSTALL F/N 56 BY MATCH DRILLING ONTO F/N 1 OR F/N 2.
- 5 APPLY F/N 55 TO FAYING SURFACES.
- 6 VENDOR : MCMMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER



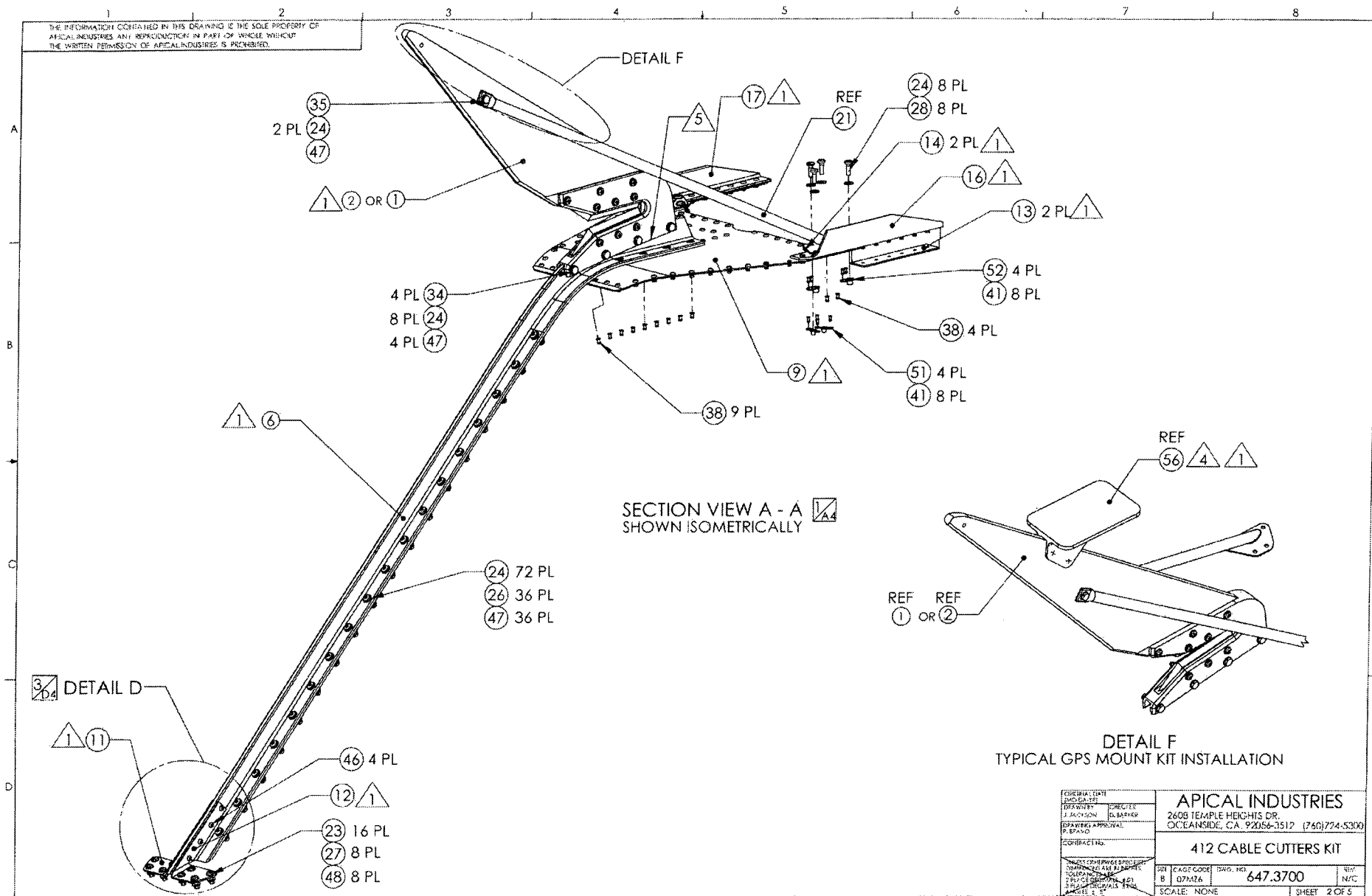
647.3701 SHOWN

REF	REF	REF	REF	56	647.5701	GPS MOUNT KIT		
A/R	A/R	A/R	A/R	55	601.2045	RTV	LOCITE 598	
A/R	A/R	A/R	A/R	54	601.1012	SEALANT	PR-1435 CLASS 8	
1	1	1	1	53	601.3083	ADHESIVE RUBBER SEAL	MIL-E-3065	
4	4	4	4	52	601.2957	NUTPLATE	MS21071L3	
4	4	4	4	51	600.0795	NUTPLATE	MS1047-3	
6	6	6	6	50	601.3066	NUTPLATE	MS2104708	
6	6	6	6	49	601.3065	NUTPLATE	MS2104705	
18	18	18	18	48	601.2973	LOCKNUT	MS2104208	
79	79	79	79	47	601.2943	LOCKNUT	MS2104203	
4	4	4	4	46	601.2364	CHERRY RIVET	CR3213-4-6	
28	28	42	42	45	601.1183	CHERRY RIVET	CR3213-4-5	
16	16	19	19	44	601.1915	CHERRY RIVET	CR3213-4-4	
24	24	32	32	43	601.0790	CHERRY RIVET	CR3213-4-3	
31	31	13	13	42	601.1039	CHERRY RIVET	CR3213-4-2	
3704	3703	3702	3701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

16	16	16	16	41	601.2207	NUTPLATE RIVET	CCR26455-3-03
12	12	12	12	40	601.2491	NUTPLATE RIVET	CCR26455-3-04
7	7	4	4	39	601.1066	CHERRY RIVET	CR3212-4-4
17	17	17	17	38	601.1065	CHERRY RIVET	CR3212-4-3
5	5	6	6	37	601.1604	CHERRY RIVET	CR3212-4-2
6	6	6	6	36	601.3082	CHERRY RIVET	CR3212-4-1
2	2	2	2	35	601.1874	BOLT	AN3C10A
8	8	8	8	34	601.2826	BOLT	AN3C11A
3	3	3	3	33	601.2823	BOLT	AN3C4A
1	1	1	1	32	601.3073	CONNECTOR	DB7-4440
8	8	8	8	31	601.2419	SCREW	MS24694C53
1	1	1	1	30	601.3070	SCREW	MS24694S49
2	2	2	2	29	601.2893	SCREW	MS27039-0811
14	14	14	14	28	601.3069	SCREW	MS27039-1-09
16	16	16	16	27	601.2263	SCREW	MS27039-0808
42	42	42	42	26	601.1365	SCREW	MS27039-1-10
12	12	12	12	25	601.2198	SCREW	MS27039-1-07
157	157	157	157	24	601.1607	WASHER	NAS1149FD332P
34	34	34	34	23	601.2764	WASHER	NAS1149H332P
1	1	1	1	22	647.4313	RH UPPER STRUT	
1	1	1	1	21	647.4312	LH UPPER STRUT	
1	1	1	1	20	647.4310	LH LOWER STRUT	
1	1	1	1	19	647.4311	RH LOWER STRUT	
1	1	1	1	18	647.4212	PLATE	
1	1	1	1	17	647.4211	BRACKET RH	
1	1	1	1	16	647.4210	BRACKET LH	
1	1	1	1	15	647.4116	SHIM	
2	2	2	2	14	647.4115	SHIM	
2	2	2	2	13	647.4114	SHIM	
1	1	1	1	12	647.4113	CLIP	
1	1	1	1	11	647.4112	CLIP	
1	1	1	1	10	647.4111	DOUBLER	
1	1	1	1	9	647.4110	DOUBLER	
1	1	1	1	8	647.4011	WIPER DEFLECTOR LH	
1	1	1	1	7	647.4010	WIPER DEFLECTOR RH	
1	1	1	1	6	647.3915	DEFLECTOR	
1	1	1	1	5	647.4410	RAIL	
1	1	1	1	4	647.3804	LOWER CUTTER ASSY HIGH	
1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW	
1	1	1	1	2	647.3802	212 UPPER CUTTER ASSY	
1	1	1	1	1	647.3801	412 UPPER CUTTER ASSY	
					647.3704	204, 205, 212 CABLE CUTTERS KIT HIGH	
					647.3703	204, 205, 212 CABLE CUTTERS KIT LOW	
					647.3702	412 CABLE CUTTERS KIT HIGH	
					647.3701	412 CABLE CUTTERS KIT LOW	

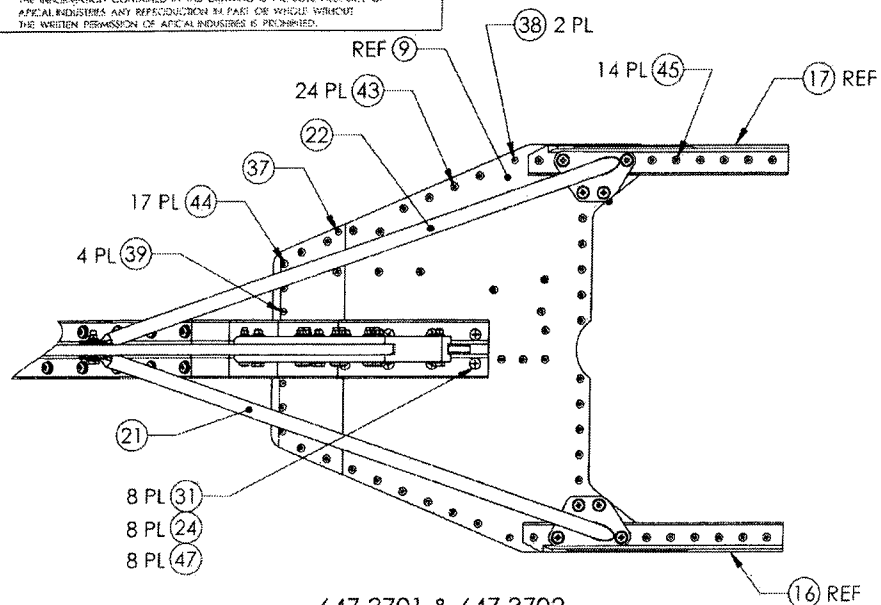
QTY		PART #		DESCRIPTION		MAT'L		SPEC.	
NEXT ASSY (S)									
ORIGINAL DATE: 04-20-04 DRAWN BY: J. JACOBY CHECKED BY: D. BARRY DESIGNED BY: P. BRADY APPROVED BY: P. BRADY				APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-5512 (760)724-5300 412 CABLE CUTTERS KIT					
SCALE: NONE SHEET: 1 OF 5				SIZE: 8 1/2" X 11" (216mm X 279mm) DATE: 07/20/06 DRAWN: 07/20/06 CHECKED: 07/20/06 DESIGNED: 07/20/06 APPROVED: 07/20/06					

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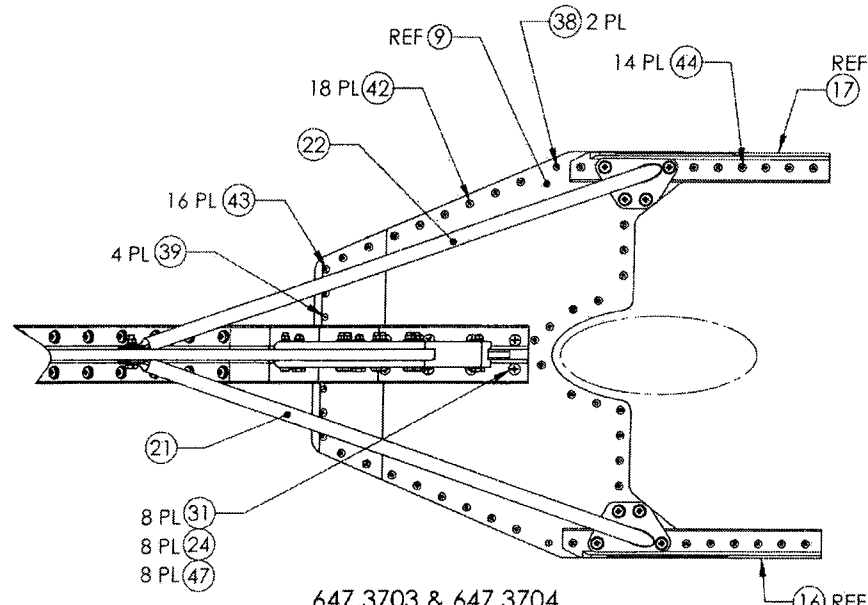


ENGINEER J. JACKSON		CHECKED J. JACKSON		APPROVED P. STAVO	
CONTRACTING J. JACKSON		DATE 07/17/16		SCALE NONE	
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA 92056-3512 (760) 724-5300		412 CABLE CUTTERS KIT		SHEET 2 OF 5	
CAGE CODE 647.3700		DATE 07/17/16		SCALE NONE	

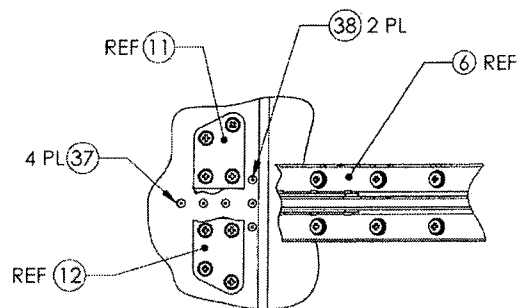
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647.3701 & 647.3702
UPPER CUTTER ASSEMBLY
TOP VIEW



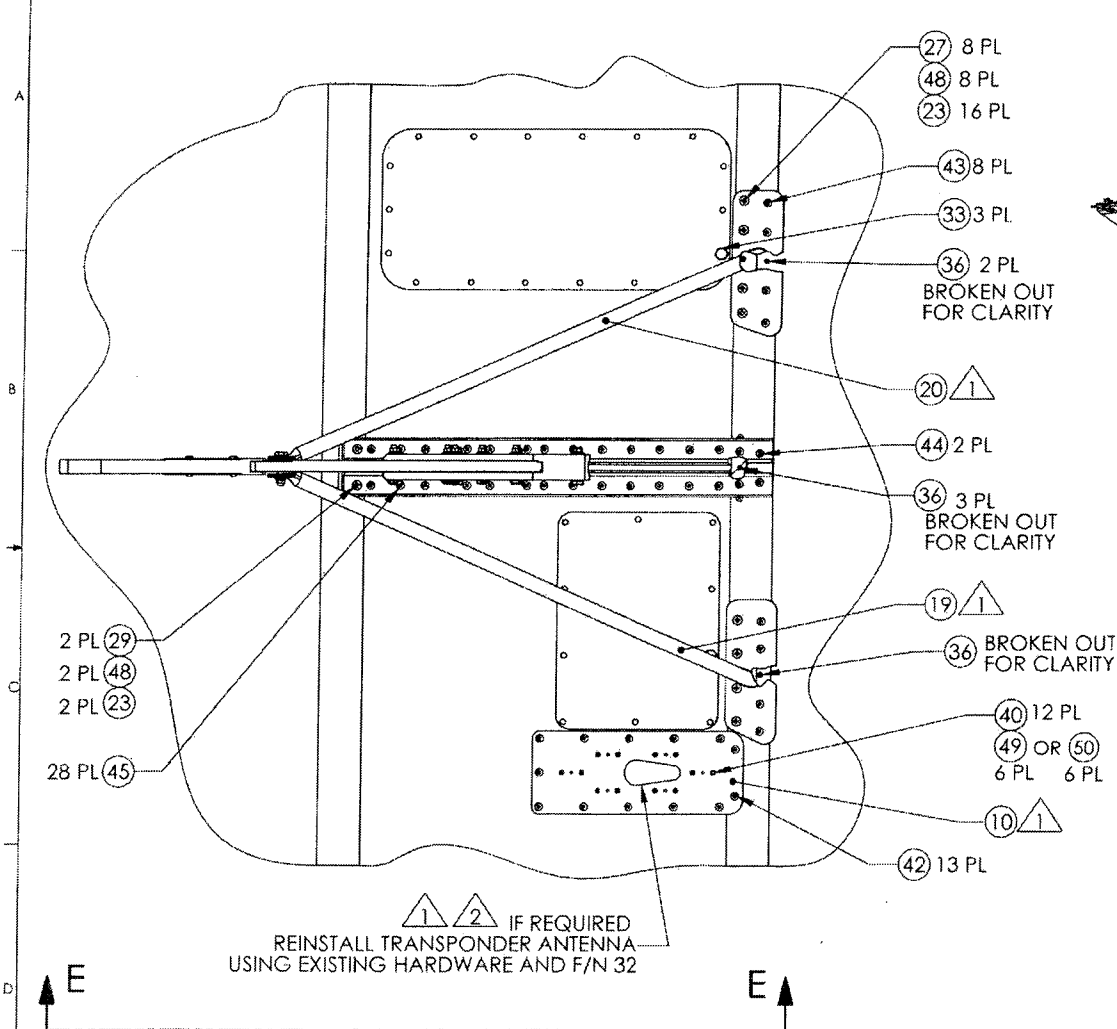
647.3703 & 647.3704
UPPER CUTTER ASSEMBLY
TOP VIEW



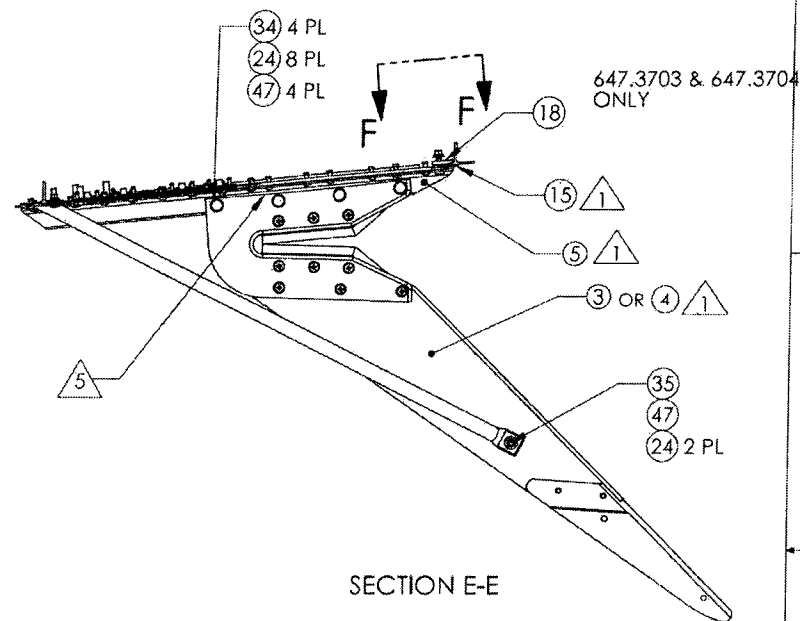
DETAIL D
TOP VIEW
BROKEN OUT FOR CLARITY

FORWARDER'S USE DRAWN BY J. HATCHER DRAWING APPROVAL P. BRAYO CONTRACT NO.	DESIGNED BY D. BARTER CHECKED BY P. BRAYO	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED		412 CABLE CUTTERS KIT
REV. 1 07/2006	REV. 2 07/2006	REV. 3 N/C
SCALE: NONE		SHEET 3 OF 5

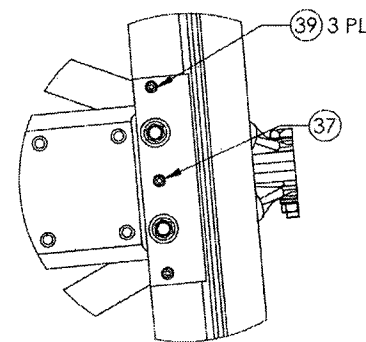
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SECTION VIEW B - B



SECTION E-E



SECTION F-F

ORIGINAL DATE DRAWN BY CHECKED BY APPROVED BY DATE	DESIGNED BY CHECKED BY APPROVED BY DATE	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92054-3512 (760)724-5300 412 CABLE CUTTERS KIT	QTY (CAGE CODE) B 07M66 SCALE NONE	DWG. NO. 647.3700 SHEET 4 OF 5	REV. N/C
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BROKEN OUT FOR CLARITY
RH SIDE ONLY

△ LH ⑧
OR
△ RH ⑦

DETAIL C $\frac{1}{2}$
LH SHOWN, RH OPPOSITE
2 PL

②⑧ 3 PL
②④ 6 PL
④⑦ 3 PL

⑤③ TRIM TO FIT

②⑥ 3 PL
②④ 6 PL
④⑦ 3 PL

②⑤ 6 PL
②④ 12 PL
④⑦ 6 PL

DRAWING DATE: 10/01/01		CHECKED: J. JACKSON		APICAL INDUSTRIES	
DRAWN BY: J. JACKSON		DESIGNED BY: J. BRAY		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA, 92056-3512 (760)724-5300	
REVISIONS:		CONTRACT NO.:		412 CABLE CUTTERS KIT	
1. CHANGE TO 1/2" B2		SIZE: 8		DWG. NO. 647.3700	REV. N/C
2. PLACE ORDER FOR 2 PL		SCALE: NONE		SHEET 5 OF 5	

To ship Feb 12/16

Work Order ID 140078

140078

Page 1

Thursday, December 17, 2015 3:42:06 PM

Item ID: 647.3704 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: 204,205,212,214 Cable Cutter System, High
Start Date: 12/17/2015 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 12/17/2015 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: MLJ Date: DEC 21 2015 Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
Run Start *NR1*
Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.3700	NC3								
100	DOCUMENT CONTROL	0.00							
100									
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.3704								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

MLJ FEB 09 2016

MLJ FEB 08 2016

C

NOTES:

- DETAIL C

5/4

647.3701 SHOWN

REF	REF	REF	REF	56	647.5701	GPS MOUNT KIT			
A/R	A/P	A/R	A/R	55	601.2045	RTV	IC8018 598		
A/R	A/R	A/R	A/R	54	601.1012	SEALANT	PE 1425		
1	1	1	1	53	601.3083	ADHESIVE RUBBER SEAL	CLASS 8		
4	4	4	4	52	601.2957	NUTPLATE	MSL P 3065		
4	4	4	4	51	600.0795	NUTPLATE	MS107113		
6	6	6	6	50	601.3066	NUTPLATE	MS21047-3		
6	6	6	6	49	601.3065	NUTPLATE	MS2104708		
18	18	18	18	48	601.2973	LOCKNUT	MS21047106		
79	79	79	79	47	601.2943	LOCKNUT	MS21042-09		
4	4	4	4	46	601.2364	CHERRY RIVET	MS21042-3		
28	28	42	42	45	601.1183	CHERRY RIVET	CR3212-4-8		
16	16	19	19	44	601.1915	CHERRY RIVET	CR3215-4-5		
24	24	32	32	43	601.0790	CHERRY RIVET	CR3213-4-4		
31	31	13	13	42	601.1039	CHERRY RIVET	CR3219-4-5		
3704	3703	3702	3701	FIN	PART #	DESCRIPTION	MATL		SPEC.

UNINCORPORATED ECN(S)

~~01728, 04845, 04880~~

SOLUTIONS			
REV	DESCRIPTION	DATE	APPROVED
	EASY PROGRESSIVE DIVISION (PI)		NAC
NAC	INITIAL RELEASE	02/27/00	P. WASS

[illegible]

QTY		ORIGINAL DATE (DD-MM-YY)		PARTS LIST	
NEXT ASSY [5]		DRAWN BY J. JAGHSON		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA, 92056 3512 (760) 724-5300	
		CHECKED BY D. BARRET			
		DRAWN BY APPROVAL J. JAGHSON ON 22-08-00		412 CABLE CUTTERS KIT	
		APPROVED BY [Signature]			
		CONSTRUCTION			
		THESE CHANGES HAVE BEEN APPROVED BY THE CUSTOMER AND IN WRITING [Signature]			
		APPROVED BY J. JAGHSON ON 22-08-00		SIZE: 670X525X100 DWG. NO.: 647.3700 REV: 1/0/0	
		SCALE: NONE		SHEET: 1 OF 8	



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

04881

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C

PREPARED BY

J. BECKER

DATE: 02/26/15

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR

[Signature]

MFG

[Signature]

QC

[Signature]

EFF.

NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: DELETED F/N 57, REVISED F/N 6.

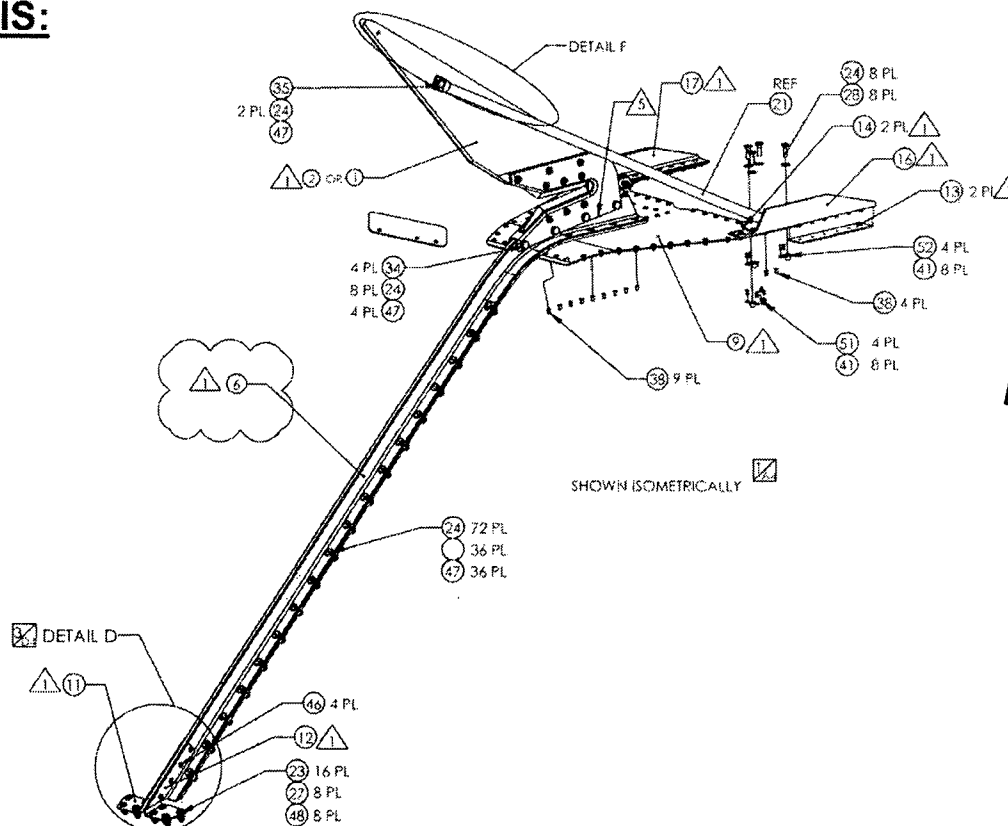
ECR:

N/A

ACTION ITEM:

1.

SHEET 1, ZONE C5 IS:



57	D	647.3916	1	1	1	1	DEFLECTOR UPPER HALF				
6	R	647.3903	1	1	1	1	DEFLECTOR ASSEMBLY				
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION			MATERIAL	SPECIFICATION
			QTY								
DOCUMENTS EFFECTED:							CHANGE CATEGORY			DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM							☐ MAJOR ☒ MINOR			☐ YES ☒ NO	